

MT 1800 – Calculus I
Identifying test questions
(15 points towards learner's package)

Instructions: This activity should be done INDIVIDUALLY.

Objective: Propose well thought out questions for Test 3.

1. Look over your book and write down the key concepts (and rules) for each section:

3.1 Powers and polynomials

3.2 The exponential function

3.3 The product and quotient rules

3.4 The Chain rule

3.5 The Trigonometric Functions

3.7 Implicit Functions

2. Look at the exercises and problems for each one of the sections above in your book. You can also look at the review exercises and problems at the end of the chapter.

Choose what you would consider a “good exercise” and a “good problem” from each section.

In general terms a “good problem/exercise” is a problem/exercise that addresses the key concepts of each section.

3.1 Powers and polynomials

Exercise #

Problem #

3.2 The exponential function

Exercise #

Problem #

3.3 The product and quotient rules

Exercise #

Problem #

3.4 The Chain rule

Exercise #

Problem #

3.5 The Trigonometric Functions

Exercise #

Problem #

3.7 Implicit Functions

Exercise #

Problem #

3. Create “your own good exercise/problem” using the exercise/problem that you chose from each section above as a model.

You have to at least change functions and number values in the exercises in order to call them “your own good exercises.”

NO CREDIT WILL BE GIVEN TO PACKAGES THAT CONTAIN IDENTICAL OR ALMOST IDENTICAL PROBLEMS/EXERCISES IN THIS SECTION!!!

3.1 Powers and polynomials

Exercise

Problem

3.2 The exponential function

Exercise

Problem

3.3 The product and quotient rules

Exercise

Problem

3.4 The Chain rule

Exercise

Problem

3.5 The Trigonometric Functions

Exercise

Problem

3.7 Implicit Functions

Exercise

Problem

4. Work out your own exercises and problems as if you were producing an answer key for your classmates to study from.

3.1 Powers and polynomials

Exercise

Problem

3.2 The exponential function

Exercise

Problem

3.3 The product and quotient rules

Exercise

Problem

3.4 The Chain rule

Exercise

Problem

3.5 The Trigonometric Functions

Exercise

Problem

3.7 Implicit Functions

Exercise

Problem